

1600

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/502,426B

DATE: 05/28/2003 TIME: 15:14:18

Input Set : A:\11696-070001.txt

Output Set: N:\CRF4\05282003\I502426B.raw

```
3 <110> APPLICANT: Azpiroz, Ricardo
        Choe, Sunghwa
        Feldmann, Kenneth A.
 7 <120> TITLE OF INVENTION: DWF4 POLYNUCLEOTIDES, POLYPEPTIDES AND USES THEREOF
 9 <130> FILE REFERENCE: 11696-070001
11 <140> CURRENT APPLICATION NUMBER: US 09/502,426B
12 <141> CURRENT FILING DATE: 2000-02-11
14 <150> PRIOR APPLICATION NUMBER: US 60/119,657
15 <151> PRIOR FILING DATE: 1999-02-11
17 <150> PRIOR APPLICATION NUMBER: US 60/119,658
18 <151> PRIOR FILING DATE: 1999-02-11
20 <160> NUMBER OF SEQ ID NOS: 30
22 <170> SOFTWARE: FastSEQ for Windows Version 4.0
24 <210> SEQ ID NO: 1
25 <211> LENGTH: 6888
26 <212> TYPE: DNA
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27 <213> ORGANISM: Arabidopsis thaliana
29 <400> SEQUENCE: 1
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32 aaaattcatt taaaatattt acaagtaatt aattatcttt acattgtatt gttataacaa 180
33 aatatotato titggtatat gagaaaatat ggagtitgga atitataata ataaaggaaa 240
34 taatcqattc catttqqttq qattacacaq ttaaqttttt qtqtttcttt tqttatatqt 300
35 atatgagtaa atcaaaaaga gtattgattg aagtgtaaac atatttcgtt atgaccccca 360
36 aaaaaaaaa aaaaacaaac aaacaaaccc ccccccgat atagtttttg gttctggatt 420
37 aggtttattt gatcataatt acatgcatca tttctttgat tactatgaag attttcttac 480
38 caattaaaat ttcgaattca tatctcttga ttattaaatt aaatacgagt gtgaatatcc 540
39 gtttatcgat cactccaatc atgattatga ttcttgtgct aatccagcaa attattaaca 600
40 agagtattga gaaaaaaccg aaaataagaa aagggaaaga gtagtgaccc atggagtatg 660
41 tgaataatta tcaaagagaa taagagatga caaccaaaag gttgtggaat aatggtccct 720
42 gccagctttc tctcacaatc aatatcgacc ctatttggat tttctggata ttcgttaaaa 780
43 tttgcgataa cgattgtgaa aaatatttta tttgttagct gatctcaata ttatgttcca 840
44 qqtatttqca taatcttctq tttaaaqcat attttqtctt tctttttqtt tcgtttctct 900
45 taactatata ttatcgcgga tatatgataa caatgatata tcacaaaaca attgtctggg 960
46 accattttga ataaactttt teteaaacat taegggacae tggaetegae eettaaaata 1020
47 cgattttaca gcgtcactag ttgagattac tagcataaag cataaaggac ccgttcaagc 1080
48 tatttataca aagttacaaa ctgaatatag cttgaaatcc tttagaaaat tttggaatta 1140
49 ccggttgtta tgtaaatata gatttagtgg taaacaaata tgttaatcaa ttagtggtca 1200
50 acatatacat aatteettac agaaaaaaca aacttaagag aagttaacat ateeatatat 1260
51 gggtatgcta tacctttcac gtatgctata ctagagacta aagaatagtt atgtgatgtc 1320
52 gataaatgaa attcacacgc gtggtaataa ttatgggacc gtatgttacg atcactgcaa 1380
53 atatcattct tggttggtca acaataaaaa caaaaacaag aaaaaaagaa aacgattttt 1440
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54 cttggattcc attcaatgat ctaaaatgca tagatctttt gggttacagt ttcgaagtcc 1500

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55	tctacaagco	g tgtaaccatc	: tgcaactatt	aaattgcttt	ctttaatgca	tctttaacat	1560
56	o atttattgtt	: agttggaatt	taataagagc	gaacttgtaa	cattacaata	tttatattag	1620
5 /	atactagtat	: gtgattattc	caaatacata	ctttggatgt	ttaaacttaa	tettattet	1680
58	tectaeggta	ı taaatattaa	tcatcgaggt	aaaaaaagtt	ttqtcttatt	ttcgcgatgc	1740
59	atgaaggata	ı aacctaatga	ctttaatttt	ttgaaaatgt	aaccctttta	ctcatagatt	1800
60	aattaccgta	ı tgtttttgtt	gccataatqa	cagcctctac	aactgtgata	gtcaatttt	1860
ρТ	tctgcaaata	ı ttaaattagg	aattcaatgo	tactatcaat	agaagaaaca	gctgagtatt	1920
62	acattttaat	: ttaaagacaa	aatttttgaa	aaatqttata	atttctaaca	atattattaa	1980
63	aatatgatgo	: ctataatgta	tttcctatgt	tcttaaaata	tttttttta	tatttagtta	2040
64	taaatacatt	atgaaccaat	aatagttggt	gaattcaaat	atctccatta	atattttttd	2100
65	aaatctacaa	attattaata	tttagtcaat	aacaatgcat	agaaagttcc	aaaaaaaatt	2160
66	ttgttaacag	aaacttccaa	atttttttt	tttatggaac	aagaaataac	agatagaaaa	2220
6/	ctattttgtt	gtggaatgga	agtagtaata	tacattaagc	aaattttaaa	aaattatata	2280
68	agcctatacg	cgctcaaagt	atgttatcta	gtaggtgtaa	ttaataatgc	atggtgcgat	2340
69	tcagaattgg	gacaacaatg	aaaacqqaat	taaaatatta	actttaaaat	aaataaaaat	2400
70	ttgagtaaat	gtgttttctg	actattgagg	ggcaaaaaaa	agacaatgcc	aaaagtotac	2460
/ T	gggtttgact	gtccagttcg	gtaataatct	aataactctg	tctttgaccg	cacactcata	2520
12	taggggtcct	tctgacattt	tcactgttct	acccctactc	gtgagcccac	ccttttccca	2580
13	tatcctaagg	gtaattttgg	aaatcccaat	ttaaaccgat	tgagaccgta	ccggacttcc	2640
/4	tgggattctg	ctggagcatt	tatcaaaaat	tattagcacg	aatgggttta	ttaatttaaa	2700
15	aactcacaac	ttgatcagat	aaaatttcat	aaacactttt	acqatqqatt	cgtacgatct	2760
76	atctaatgac	ttttttttt	ctaccacggt	ggatgaaagt	tatagtacta	ttagccagag	2820
1.1	acaattgatt	atagatatat	ccattaatcc	atgatattta	tgatataaat	agctgttaaa	2880
78	ctatttcagc	atcgcagctt	tctgcaactt	ttgtttttaa	tttaagagtt	taataaataa	2940
19	aagtattaaa	aggagcataa	cgaggcaaca	aaagtaatga	acacggagaa	acaaaaaacca	3000
80	tgaagctcat	tggttagttt	aagcttaata	agaagatttt	attaaatttt	aatgacgatg	3060
81	ataacaatta	tattttctga	cttctttaaa	accccctctt	acaaacagaa	geteectttt	3120
82	tcagtagaag	tccgattccc	aatcttaaag	acaaaqccat	tagaaagaga	aagtgagtga	3180
83	gagagagaga	gaaactagct	ccatgttcga	aacagagcat	catactctct	tacctcttct	3240
84	tcttctccca	tcgcttttgt	ctcttcttct	cttcttgatt	ctcttgaaga	gaagaaatag	3300
85	aaaaaccaga	ttcaatctac	ctccgggtaa	atccggttgg	ccatttcttg	gtgaaaccat	3360
86	cggttatctt	aaaccgtaca	ccgccacaac	actcggtgac	ttcatgcaac	aacatgtctc	3420
8 /	caagtaaaca	acaacatctt	ccaaaaactc	aaaaaaataa	atcctctgtt	tttgaaattt	3480
88	gactaatgtt	gtttatttta	caggtatggt	aagatatata	gatcgaactt	gtttggagaa	3540
89	ccaacgatcg	tatcagctga	tgctggactt	aatagattca	tattacaaaa	cgaaggaagg	3600
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92	gcacgtctta	gaactattct	acttaaagat	gttgagagac	atactttatt	tgttcttgat	3780
93	tettggcaac	aaaactctat	tttctctgct	caagacgagg	ccaaaaaggt	ttttatttt	3840
94	atcttttatt	ttgctaaatt	tttttgttta	tgaatcttta	gagtttctaa	ctttttttt	3900
95	tttaattgaa	cagtttacgt	ttaatctaat	ggcgaagcat	ataatgagta	tagatectag	3960
96	agaagaagaa	acagagcaat	taaagaaaga	gtatgtaact	ttcatgaaag	gagttgtctc	4020
91	tgctcctcta	aatctaccag	gaactgctta	tcataaagct	cttcaggtac	atttatttt	4080
90	ttttgctgta	aagtcacaaa	ctctcattat	aggtttttaa	ttttattta	tatattaaat	4140
99	aaaatatcta	aaatggttgt	gtagtcacqa	gcaacgatat	tgaagttcat	tgagaggaaa	4200
TOO	atggaagaga	. gaaaattgga	tatcaaggaa	gaagatcaag	aagaagaaga	agtgaaaaca	4260
TOT	gaggatgaag	r cagagatgag	taagagtgat	catqttaqqa	aacaaagaac	agacgatgat	4320
102	cttttgggat	gggttttgaa	acattcgaat	ttatcgacgg	agcaaattct	cgatctcatt	4380
103	cttagtttgt	tatttgccgg	acatgagact	tcttctgtag	ccattgctct	cgctatcttc	4440
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Input Set : A:\11696-070001.txt

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105 aagttaatta ctaccaaatt gttacgtatt atataagtta ttatagaatt attctattag 4560
106 aatatacgat gaaaaaagta tgtatattta attgtcacta attttatgtt tattgattta 4620
107 tacttttgaa ggaagagcat cttgagatcg cgagggccaa gaaggaacta ggagagtcag 4680
108 aattaaattg ggatgattac aagaaaatgg actttactca atgtgtatgt tactatcatt 4740
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110 ttggtgtgtg tgaaggttat aaatgaaact cttcgattgg gaaatgtagt taggtttttg 4860
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127 gtgatttata aaatcggttt gtcgtttttt tttgtgacga gcagcaaaac aacggagcgt 5880
128 catcgtcagg aagtggtagt ttttcgacgt ggggaaacaa ctacatgccg tttggaggag 5940
129 ggccaaggct atgtgctggt tcagagctag ccaagttaga aatggcagtg tttattcatc 6000
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132 agatgaaagt atttttattc tcttcttttt tttttgataa ttttaaatca tttttttgc 6180
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136 aaatgggctt tctataaggc ccaattatat tacgattata acaaagtgac aacttttact 6420
137 tcgtttttga tccgaagcaa taacaaattg tcaaatacca aacacaagaa ttatgtaaac 6480
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148 <212> TYPE: PRT
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153
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/502,426B

DATE: 05/28/2003 TIME: 15:14:18

Input Set : A:\11696-070001.txt

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155	71 ** ~	Two	Thr	20	Dho	Λen	Lou	Pro	25 Pro	G1 v	T.ve	Ser	Glv	30 Trn	Pro	Phe
157	ALG	цуз	35	ALG	rne	ASII	neu	40	110	Gry	цуз	561	45	пр	110	1110
	Leu	Glv		Thr	Ile	Glv	Tvr	Leu	Lvs	Pro	Tvr	Thr		Thr	Thr	Leu
159		50				1	55		-1-		- 1 -	60				
	Gly	Asp	Phe	Met	Gln	Gln	His	Val	Ser	Lys	Tyr	Gly	Lys	Ile	Tyr	Arg
161	65	-				70	•			_	75					80
162	Ser	Asn	Leu	Phe	Gly	Glu	Pro	Thr	Ile	Val	Ser	Ala	Asp	Ala	Gly	Leu
163					85					90			_		95	
	Asn	Arg	Phe		Leu	Gln	Asn	Glu		Arg	Leu	Phe	Glu		Ser	Tyr
165	_	_		100	01	61 .	- 1 -	*	105	T	m	C	N/	110	17-1	T 0.11
	Pro	Arg		тте	GTĀ	GTĀ	тте	Leu 120	стА	ьуs	Trp	ser	125	Leu	vaı	ьeu
167	Ual	C1 v	115	Mat	Hic	Ara	Δen	Met	Δra	Ser	Tle	Ser		Δsn	Phe	T.e.ii
169	vaı	130	лэр	Hec	1113	ALG	135	Hec	nrg	JCI	110	140	пса	11011	1110	ЦСu
	Ser		Ala	Ara	Leu	Ara		Ile	Leu	Leu	Lvs		Val	Glu	Arq	His
	145			5		150					155	-			_	160
172	Thr	Leu	Phe	Val	Leu	Asp	Ser	Trp	Gln	Gln	Asn	Ser	Ile	Phe	Ser	Ala
173					165					170					175	
	Gln	Asp	Glu		Lys	Lys	Phe	Thr		Asn	Leu	Met	Ala		His	Ile
175		_		180	_	~ -		~ 1	185		~1	~ 3	-	190	.	G1
	Met	Ser		Asp	Pro	GLY	GLu	Glu	Glu	Thr	Glu	GIn		ьуѕ	гла	GIU
177	Ф	17.5.1	195	Dho	Mo+	Tuc	C1,,	200 Val	Val	Sor	Λla	Pro	205	Δen	Τ.Δ11	Pro
179	ıyı	210	1111	rne	Met	пур	215	vaı	vaı	Ser	лта	220	пец	ASII	пец	110
	Glv		Ala	Tvr	His	Lvs		Leu	Gln	Ser	Ara		Thr	Ile	Leu	Lys
	225			-1-		230				*	235					240
182	Phe	Ile	Glu	Arg	Lys	Met	Glu	Glu	Arg	Lys	Leu	Asp	Ile	Lys	Glu	Glu
183					245					250					255	
	Asp	Gln	Glu		Glu	Glu	Val	Lys		Glu	Asp	Glu	Ala		Met	Ser
185	_	_	_	260		_	-	6 1	265	m1.		7	70	270	.	C1
	Lys	Ser	275	His	vaı	Arg	гйг	Gln 280	Arg	Thr	Asp	Asp	285	ьeu	ьeu	GTÀ
187	Trn	Val		Lvs	His	Ser	Asn	Leu	Ser	Thr	Glu	Gln		T.e.i	Asp	Len
189	111	290	шси	Lyo	1110	561	295		001		0.2.0	300			1101	
190	Ile	-	Ser	Leu	Leu	Phe	Ala	Gly	His	Glu	Thr	Ser	Ser	Val	Ala	Ile
	305					310		_			315					320
192	Ala	Leu	Ala	Ile	Phe	Phe	Leu	Gln	Ala		Pro	Lys	Ala	Val		Glu
193					325					330					335	
	Leu	Arg	Glu		His	Leu	Glu	Ile		Arg	Ala	Lys	Lys		Leu	Gly
195		_		340	_	_	_	_	345	-	.		70	350	m1	C1
	GLu	Ser		Leu	Asn	Trp	Asp	360	Tyr	гàг	глг	мет	365	Pne	Thr	Gln
197	Cvc	Wa l	355	Aen	Glu	Thr	Len		Ī. 🗀 11	Glv	Asn	Val		Δra	Phe	Leu
199	Cys	370	TIE	LO11	υ±u	T 1 1 T	375	my	n-cu	O.r.y	11011	380	· uı	****		204
	His		Lvs	Ala	Leu	Lvs		Val	Ara	Tvr	Lys		Tyr	Asp	Ile	Pro
	385	- 5				390	- L		,	_	395	_	-	, -		400
		Gly	Trp	Lys	Val	Leu	Pro	Val	Ile	Ser	Ala	Val	His	Leu	Asp	Asn
203					405		_			410					415	
	-															

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Input Set : A:\11696-070001.txt

204 Ser Arg Tyr Asp Gln Pro Asn Leu Phe Asn Pro Trp Arg Trp Gln Gl 205 420 425 430	n										
206 Gln Asn Asn Gly Ala Ser Ser Ser Gly Ser Gly Ser Phe Ser Thr Try 207 435 440 445	Р										
208 Gly Asn Asn Tyr Met Pro Phe Gly Gly Gly Pro Arg Leu Cys Ala Gl 209 450 455 460	У										
210 Ser Glu Leu Ala Lys Leu Glu Met Ala Val Phe Ile His His Leu Va 211 465 470 475 48											
212 Leu Lys Phe Asn Trp Glu Leu Ala Glu Asp Asp Gln Pro Phe Ala Pho 213 485 490 495											
214 Pro Phe Val Asp Phe Pro Asn Gly Leu Pro Ile Arg Val Ser Arg Il. 215 500 505 510	е										
.6 Leu											
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0 <211> LENGTH: 24											
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224 <220> FEATURE:											
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9 cctcgatcaa agagagaga a											
41 <210> SEQ ID NO: 5											
242 <211> LENGTH: 29											
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244 <215 OKGANISM: AICHITCIAI Sequence											
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249 <400> SEQUENCE: 5											
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252 <210> SEQ ID NO: 6											
253 <211> LENGTH: 26											
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255 <213> ORGANISM: Artificial Sequence											
57 <220> FEATURE:											
58 <223> OTHER INFORMATION: Primer: D4RTR											
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261 tatgataagc agttcctggt agattt 263 <210> SEO ID NO: 7	26										
264 <211> LENGTH: 21											
265 <212> TYPE: DNA											
266 <213> ORGANISM: Artificial Sequence											
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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/502,426B

DATE: 05/28/2003 TIME: 15:14:19

Input Set : A:\11696-070001.txt

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

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Seq#:25; Xaa Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22
Seq#:25; Xaa Pos. 23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,42,43,46
Seq#:25; Xaa Pos. 48,50,56,57,58,61,62,63,64,65,66,67,68,72,82,92,93,94,95
Seq#:25; Xaa Pos. 96,97,102,107,108,111,112,113,114,126,128,136,138,142,146
Seq#:25; Xaa Pos. 148,149,153,154,156,160,163,165,166,168,175,178,180,183
Seq#:25; Xaa Pos. 184,185,186,190,193,197,201,203,204,206,207,208,209,212
Seq#:25; Xaa Pos. 213,216,217,218,219,221,228,229,230,232,233,236,237,239
Seq#:25; Xaa Pos. 240,242,244,245,246,247,250,252,254,268,272,276,281,282
Seq#:25; Xaa Pos. 284,287,288,289,290,291,292,293,294,295,296,298,300,302
Seq#:25; Xaa Pos. 306,307,308,309,310,311,312,313,314,315,316,317,318,319
Seq#:25; Xaa Pos. 320,321,322,323,324,325,326,334,336,337,338,339,340,341
Seq#:25; Xaa Pos. 345,346,347,348,352,355,357,359,360,372,374,375,381,387
Seq#:25; Xaa Pos. 389,395,398,403,404,405,408,411,412,418,421,432,437,440
Seq#:25; Xaa Pos. 442,451,459,471,481,484,485,487,488,489,490,494,495,496
Seq#:25; Xaa Pos. 497,498,499,500,501,502,503,505,506,526,535,541,542,543
Seq#:25; Xaa Pos. 545,546,547,551,555,558,566,567,570,571,572,573,574,575
Seq#:26; Xaa Pos. 4,8,10
Seg#:28; Xaa Pos. 1,13,15,16
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